

IN THE CLAIMS

The current claims follow. For claims not marked as amended in this response, any difference in the claims below and the previous state of the claims is unintentional and in the nature of a typographical error.

1. (Currently Amended) For use in a telecommunication network, a switch comprising:
a plurality of call control agent functions, at least two of the call control agent functions associated with different signaling protocols, the signaling protocols defining a plurality of signaling control primitives; and

[[a]]first and second call control functions ~~function~~ operable to control routing of telephone calls through the switch, wherein

the first and second call control functions ~~are function~~ is accessed using an application programming interface (API), the API comprising a plurality of classes defining objects representing the signaling control primitives, and

each of the first and second call control functions is accessed by the other call control function using the API.

2. (Original) The switch of Claim 1, wherein the plurality of classes comprises a base class and at least one derived class derived from the base class.

3. (Original) The switch of Claim 2, wherein:
the base class comprises the only base class in the API; and
a plurality of derived classes are derived from the base class.
4. (Canceled).
5. (Original) The switch of Claim 1, wherein the switch comprises a plurality of
sides, each side comprising a plurality of call control agent functions and a call control function.
6. (Original) The switch of Claim 1, further comprising a service switching
function, wherein the service switching function is operable to facilitate communication with a
service control point.
7. (Original) The switch of Claim 1, wherein the signaling protocols comprise a
Plain Old Telephony System (POTS) signaling protocol, a Session Initiation Protocol (SIP) signaling
protocol, and an Integrated Services Digital Network User Part (ISUP) signaling protocol.

8. (Currently Amended) A telecommunication network comprising a plurality of switches, at least one of the switches comprising:

a plurality of call control agent functions, at least two of the call control agent functions associated with different signaling protocols, the signaling protocols defining a plurality of signaling control primitives; and

[[a]]first and second call control functions ~~function~~ operable to control routing of telephone calls through the switch, wherein

the first and second call control functions ~~are function~~ is accessed using an application programming interface (API), the API comprising a plurality of classes defining objects representing the signaling control primitives, and

each of the first and second call control functions is accessed by the other call control function using the API.

9. (Original) The network of Claim 8, wherein the plurality of classes comprises a base class and at least one derived class derived from the base class.

10. (Original) The network of Claim 9, wherein:
the base class comprises the only base class in the API; and
a plurality of derived classes are derived from the base class.

11. (Canceled).

12. (Original) The network of Claim 8, wherein the at least one switch comprises a plurality of sides, each side comprising a plurality of call control agent functions and a call control function.

13. (Original) The network of Claim 8, wherein the at least one switch further comprises a service switching function, wherein the service switching function is operable to facilitate communication with a service control point.

14. (Original) The network of Claim 8, wherein the signaling protocols comprise a Plain Old Telephony System (POTS) signaling protocol, a Session Initiation Protocol (SIP) signaling protocol, and an Integrated Services Digital Network User Part (ISUP) signaling protocol.

15. (Original) The network of Claim 8, wherein the at least one switch comprises one of a service switching point and a central office switch.

16. (Currently Amended) For use in a telecommunication switch, a method comprising:
identifying a plurality of signaling control primitives associated with a signaling protocol;
identifying one or more first classes associated with an application programming interface
(API) to a call control function in a switch;
extending one or more second classes associated with the API, the one or more first classes
and the one or more second classes defining objects representing the signaling control primitives;
and
allowing access to the call control function using the signaling protocol from a second call
control function.

17. (Original) The method of Claim 16, wherein the first and second classes facilitate
access to the call control function by a plurality of call control agent functions, at least two of the call
control agent functions associated with different signaling protocols.

18. (Original) The method of Claim 16, wherein the first and second classes comprise
a single base class and a plurality of derived classes derived from the base class.

19. (Original) The method of Claim 16, wherein the signaling protocol comprises one
of a Plain Old Telephony System (POTS) signaling protocol, a Session Initiation Protocol (SIP)
signaling protocol, and an Integrated Services Digital Network User Part (ISUP) signaling protocol.

20. (Original) The method of Claim 16, wherein:
the signaling protocol comprises a first signaling protocol; and
the one or more first classes are associated with both the first signaling protocol and a
different second signaling protocol.